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(54) **MULTIRADIATION GENERATION APPARATUS AND RADIATION IMAGING SYSTEM UTILIZING DUAL-PURPOSE RADIATION SOURCES**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

A multiradiation generation apparatus according to the present invention includes a plurality of radiation sources arranged in a row. Each of the radiation sources includes an electron source configured to emit electrons and a target unit configured to generate radiation upon receiving electrons emitted from the electron source. At least one of the radiation sources is a dual-purpose radiation source used for both tomosynthesis imaging and non-tomosynthesis imaging, and the other radiation sources are single-purpose radiation sources used only for tomosynthesis imaging.

**26 Claims, 10 Drawing Sheets**

